API NUMBER: 109 22434

Oil & Gas

Horizontal Hole

OKLAHOMA CORPORATION COMMISSION **OIL & GAS CONSERVATION DIVISION** P.O. BOX 52000 **OKLAHOMA CITY, OK 73152-2000** (Rule 165:10-3-1)

Approval Date: 10/16/2014 04/16/2015 Expiration Date:

PERMIT TO DRILL

WELL LOCATION:	Sec:	33	Twp:	14N	Rge: 4W	County:	OKLAHOMA
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SPOT LOCATION: SW FEET FROM QUARTER: sw || SE SE SOUTH FROM EAST SECTION LINES: 197 1098

Lease Name: WARSAW Well No: 33-3H Well will be 1098 feet from nearest unit or lease boundary.

GASTAR EXPLORATION INC Operator Telephone: 7137391800; 4057221 OTC/OCC Number: 23199 0 Name:

GASTAR EXPLORATION INC 1331 LAMAR STE 650

HOUSTON. 77010-3131 TX

JAY L WADE TRUST & JANNA L HEFLEY-WADE TRUST 16605 N MACARTHUR BLVD

EDMOND OK 73012

D. One time land application -- (REQUIRES PERMIT)

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

Formation(s) (Permit Valid for Listed Formations Only):

	Name	Depth	Name	Depth
1	HUNTON	6720 6		
2		7		
3		8		
4		9		
5		1	0	
Spacing Orders:	20212	Location Exception Orders:		Increased Density Orders:

Pending CD Numbers: Special Orders:

Total Depth: 13500 Depth to base of Treatable Water-Bearing FM: 740 Ground Elevation: 1100 Surface Casing: 790

Under Federal Jurisdiction: Fresh Water Supply Well Drilled: No Surface Water used to Drill: No

PIT 1 INFORMATION Approved Method for disposal of Drilling Fluids:

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED Chlorides Max: 5000 Average: 3000

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? N Wellhead Protection Area?

is located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C Pit Location is BED AQUIFER Pit Location Formation: SALT PLAINS

This permit does not address the right of entry or settlement of surface damages. The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1. Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

PERMIT NO: 14-28415

HORIZONTAL HOLE 1

Sec 10 Twp 13N Rge 4W County OKLAHOMA

Spot Location of End Point: NW SE NW NE
Feet From: SOUTH 1/4 Section Line: 1739
Feet From: WEST 1/4 Section Line: 701

Depth of Deviation: 6300
Radius of Turn: 445
Direction: 120
Total Length: 6500

Measured Total Depth: 13500

True Vertical Depth: 6848

End Point Location from Lease,
Unit, or Property Line: 619

Notes:

Category Description

SPACING - 20212 10/16/2014 - G91 - (UNIT) 33-14N-4W & 4-13N-4W, W2, W2 E2 3-13N-4W, W2, W2 E2, SE4 NE4,

SE4 NE4 10-13N-4W

EST WEST EDMOND HUNTON LIME UNIT FOR HUNTON